Scott. II-27--25,000--15-[illegible]

L. 54 (1931) Department.

No SERIES.

G.O, No. 715 P.H

DATED 20. 4. 193

[Despatch Abstract.]

Malaria - Siruguppa (Bellary District) . Improvements to the Bagavadi Channel - expenditure of Rs.12,430 - sanctioned.

PUBLIC WORKS DEPARTMENT.

C.F. 80.

Received ..... 192 . *Registered* 192

Subject.

MALARIA - SIRUGUPPA UNION - BELLARY - KEEPING THE IRRIGATION CHANNELS IN A SANITARY CONDITION.

ENCLOSURES.
No .....
.....
Spare copies .....

No. 1937/30 C.E.P.

Station CHEPAUK , *Dated the* 22nd August 1930.

From (Name) M.R.RY RAO SAHIB N.SWAMINATHA AYYAR AVL.B.A.

(Designation) OFFG. CHIE. ENGINEER FOR IRRIGATION.

To The Secretary to the Government of Madras,

LOCAL SELF GOVERNMENT Department.
Through the Secretary to Government
Public Works and Labour Department.

Sir,

With reference to G.O.No.147 P.H. dated 23-1-1930, I forward herewith plans and estimate amounting to Rs 11,000/- for improvements to the Bagavadi channel within the Union limits of Siruguppa, Bellary district for consideration in connection with the Civil Budget Estimate for 1931-32.

for Chief Engineer for Irrigation.

Encls. Estimate with report.
3 cross sections.

Report to accompany the estimate for keeping the irrigation channels in a sanitary condition to prevent Malaria within the Union limits of Siruguppa Taluk, Bellary District.

Amount of Estimate Rs. 11,000/-.

Siruguppa is a Union Town with a population of about 6000 situated directly about a mile to the east of the right bank of the Tungabhadra and 35 miles north of Bellary Town. The town has got 2000 acres of fertile wet lands and 4000 acres of dry lands the most important produce of the former being paddy and sugarcane and that of the latter being cotton. The town itself is situated close to the wet fields at the edge of ~~the~~ a broad plateau whose natural declivity is towards the north and west so much so that the village side is low lying almost flat and undrained whereby it gets waterlogged during and after the monsoon rains.

2. Irrigation of lands in the vicinity of the town is carried on by a channel which takes its source from the Tungabhadra river from the Siruguppa anicut at Kenchanakuddam some five miles to the south-west of the town. The main channel just as it enters the town at the south-west corner is divided into two branches the major one called the Ibrahimpuram channel running alongside the west and north of the town and the minor one called the Bagavady channel running right across the populace part of the town from south-west to north-east.

3. Wet fields in parts of the town about almost on the house walls. The outskirts adjacent to the town are riddled with pits and shallow depressions which are sure to become ideal ~~xxxx~~ spots for the breeding of dangerous anophelines during and for some time after the rains. The two main irrigation channels and their branches running into or past across the fields breed Anophles larvae and consequent Malaria.

p-26(7)

4. The Government in G.O.No.Mis.2233-P.H., dated 25-10-1928 forwarded a report of the Special Malaria Officer on Malaria Survey in the Siguguppa Union and requested the Chief Engineer for Irrigation to submit an approximate estimate for keeping the irrigation channels in a more sanitary condition.

5. Accordingly this estimate provides for clearing the silt in the bed of the Bagavady channel with a bed slope of 1' per mile, trimming slopes, forming banks, dry stone revetments for both banks, 6" gravel

backing to revetments and grouting voids of revetment with surki within the union limits of Siruguppa. A lump sum provision of Rs.30 is also made in the estimate for removing vegetation within the union limits of Siruguppa as the vegetation in the lower reach is being removed from the provision made in the estimate sanctioned for lower reaches.

6. It is reported that rank vegetation and growth of weeds along the water edge of the Ibrahimpuram channel observed by the Special Malaria Officer, are being cleared every year.

for G.S. Rajaswamy 15/8

Offg: Supg. Engineer, Madras Circle.

R.S/15-8-30.

15/8/30

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2. Irrigation of lands in the vicinity of the town is carried on by a channel which takes its source from the Tungabhadra river from the Siruguppa anicut at Kenchanakuddam some five miles to the south-west of the town. The main channel just as it enters the town at the south-west corner is divided into two branches the major one called the Ibrahimpuram channel running alongside the west and north of the town and the minor one called the Bagavady channel running right across the populace part of the town from south-west to north-east.

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G.S. Anjaswamy 15/8

for Offg: Supg. Engineer, Madras Circle.

R.S/15-8-30.

15-8/30

Bhajawadi channel

Hydraulic calculations

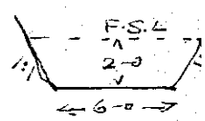
Bhajawadi channel : 184.53 ans

Designed, Capacity = 50.00 ans

Total 234.53 or 235. cs

Discharge required at 20 dumps being a Bucket conveyor = 235 cs = 11.75 cumecs

A channel cross section under F.S.L 1:1 slopes 1½ feet wide bottom 2'0" above bed 1:1 slopes 6.50 cumecs at a velocity of 1.17 ft/sec



Area = $6 + \frac{2}{2} \times 2 + \frac{1}{2} \times 2 \times 2$ = 10 sq ft.

b = $6 + 2 \times 2 + 1 + 1$ = 11.65.

f = $\frac{14}{11.65}$ = 1.34 ft. ∴ 1.3 ft = 1.17.

S = 1 ft per mile = $\frac{1}{5280}$ ∴ 0.5 = $\frac{1}{?}$

Q = A.V. V = C$\sqrt{R.S}$.

C = $\frac{(41.6 + \frac{1.811}{N} + 0.0281)\sqrt{R}}{1 + N(41.6 + 0.0281)\sqrt{R}}$

N = 0.02 for channel pair order.

= $\frac{(41.6 + (\frac{1.811}{0.02}) + 14.82) \times 1.17}{1 + 0.02(41.6 + 14.82)}$ = $\frac{66.81 \times 1.17}{1.17 + 1.69}$ = 136.4 / 2.4

= 41.7.

C$\sqrt{R}$ = $47.73 \times 1.17 \times \sqrt{0.5}$ = $\frac{55.84}{\sqrt{2}}$ = 0.77.

Q = A x V = 16 x 0.77 = 12.32 cumecs.

The 1:1 channel is to maintain to the standard of 6'-0" bottom width, side slope 1:1, depth 1½ ft and F.S.L. 2'-0" above bed.

The length of the channel to the main bank is approx 1:1 slopes 1½ ft wide bottom at 2'-0" above bed level.

The F.S.L is decided to be 2'-0" above F.S.L, as the depth of dynamic pressure of the head water is 1½ ft above the F.S.L. The arrangement of the channel upto F.S.L - 2'-0" above F.S.L is considered sufficient under above circumstances.

A.M. Agarwal.
Dy. Engineer
15.2.49.

[E. M. 29.]
10,000—7-10-12.

To be employed for all earth-work (Tank and Channel) estimates when sectional measurements are used and when the quantities are not taken out direct.

ESTIMATE FORM.

Calculation Sheet of Cross Sectional Areas and Contents of Earth-work.

To accompany the detailed Estimate No.

of 191 -191 for *

* Here enter the name and description of work in full.

ESTIMATE FORM – Calculation Sheet.

Number of Section.	Area of present Section.	Area of proposed Section.	Difference.	Mean Area	Length.	Cubical Contents.	Remarks.
1	2	3	4	5	6	7	8
Improvement to Bypass Road channel within [illegible]							
[illegible]							
[illegible]			0.00				
[illegible]			11.00	5.50	80	440	
[illegible]			14.00	12.50	140	1750	
[illegible]			30.00	2.50	312	3744	
[illegible]			15.00	12.50	128	1600	
[illegible]			11.00	15.50	132	204	
[illegible]			17.00	16.50	198	3261	
[illegible]			27.00	22.00	330	7260	
[illegible]			20.00	23.50	240	5640	
[illegible]				17.50	420	7350	
[illegible]				15.50	330	5115	
[illegible]				18.50	330	6105	
[illegible]				18.50	330	6105	
[illegible]				23.00	140	3220	
[illegible]			4770		5·66×1·75	47247	
					Total	100889	or 101.000
Earthwork from [illegible]							
[illegible]			0				
[illegible]			5	2.50	140	350	
[illegible]			[illegible]	[illegible]	312	780	
[illegible]			[illegible]	[illegible]	128		
[illegible]			90	2.00	132	5940	
[illegible]			3849	4.50	192	17622	
[illegible]			80	87.00	330	28710	
[illegible]			90	10.50	240	15840	
[illegible]			[illegible]	[illegible]	420	14280	
[illegible]			[illegible]	[illegible]	330	3630	
[illegible]			[illegible]	[illegible]	83	-	
[illegible]			[illegible]	2.00	330	660	
[illegible]			[illegible]	7.00	140	980	
[illegible]			[illegible]			4208	
					Total	91000	or 91.000

ESTIMATE FORM—Calculation Sheet.

Number of Section.	Area of present Section.	Area of proposed Section.	Difference.	Mean Area.	Length.	Cubical Contents.	Remarks.
1	2	3	4	5	6	7	8

Difference between ~~ceiling~~ ~~and~~ ~~new~~ earth to be

Statement of ~~shifting~~ ~~the~~

Right Bank.

Mileage

0.0.040 to 0.0.60 = 60 ft.

0.0.120 to 0.0.210 = 90 ft.

0.0.252 to 0.0.330 = 80 ft.

0.0.330 to 0.0.440 = 330 ft.

0.1.30 to 0.1.110 = 80 ft.

0.3.310 to 0.3.410 = 100 ft.

0.4.380 to 0.4.388 = 200 ft.

Total 1020

∴ Width to be in S = 1020 × 43 = 1450.

Length of ~~measurement~~ for area ~~in~~ ~~sq~~ ~~ft~~

= 2 × (10-4-470) = 1450 = 2 × 3 . 1450 = 41 . 0 ft.

STATION,_____

Dated _____ 191 .

Executive Engineer,

_____ *Division.*

Data sheet to accompany the estimate for Improvements to [redacted]

Channel.

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per	Amount. Rs.	A.	P.	
1000 cft.	E.W. cutting hard & trimming sides & ramming bed & ends								
	open earth, including all labour, tools & implements								
	lead with an average lead not exceeding 200 yds								
	& lift not exceeding 4 ft.								
1 cu. yd.	Ex cutting in ordinary soil 26 less sundries	5	15	2		5	15	2	
do	Extra for cutting in soil requiring the use of pick & crowbar						3		
do	Extra lead over 200 yds & up to 1/2 a mile	0	6	6	1000 cft.	0	0	6	
220 cft.	Extra lead over 1/2 a mile for lifting & carrying per 1000 cft. per additional 1/2 mile or fraction thereof					6	8	6	
1 ft.	Extra lift as above No. 32	0	5	6	1000 cft.	5	14	6	
	carried					0	5	6	
						0	0	4	
									13-4-0
	(2). Dry stone work with new stone:- 1 cft.								
100 cft.	Ex cutting No. 150 as above	2	3	5	100 cft.	2	3	5	
100 cft.	Dressing 4 sides ct. koursed drawing	10	2	6	do	10	2	6	
25 cft.	Extra lead 4 miles ct. C.T	8	2	0	do	2	0	6	
	carried					0	0	7	
						20	12	0	20-12-0
					Total				
	(3). Gravel Packing 3" thick								
100 cft.	Ex excavating gravel as above	0	4	11	100 cft.	0	13	4	
	as per item No. 29A carried								
100 cft	Packing gravel 2 miles lead from pond drawing Road side drawing CT	4	6	0	100 cft. do.	4	6	0	
100 cft	Packing gravel Foreshore as per item No. 45	0	4	6	do	0	4	6	
100 cft	Spreading gravel Consolidating & watering complete as per item No. 33A.	0	5	6	do	0	5	6	
	carried					0	0	8	
					Total	5	11	0	5-14-0

P.W.D. V-38—31,965—28—16.

Data sheet to accompany the estimate for _____

Quantity.	Description of work.	Rate. Rs.	A.	P.	Per	Amount. Rs.	A.	P.	Total.
	(1) Providing with a revetment wall with earth work in cement								
	concrete 1:2:4 mixture including dressing the surface with a trowel								
100 cft	Cement concrete in 1:2:4 mixture including dressing the surface with a trowel	21	3	2	100 cft	21	3	2	
	No 75 less 25%								
110 cft	Metal (cast 1½ inch) C.T.	8	2	0	do	8	15	0	
		~~7~~	~~12~~	~~6~~		~~8~~	~~8~~	~~11~~	
		~~6~~	~~15~~	~~0~~					
18¾ cft	Lime (cast 2 inch) C.T.	~~6~~	~~15~~	~~4~~	do	+	14	10	
	Road	7	14	3		1	7	8	
9⅜ cft	Surkhi (cast 3 inch) C.T.	6	4	0	do	0	9	5	
		~~7~~	~~5~~	~~4~~		~~0~~	~~9~~	~~7~~	
	Sheet impression								
28⅛ cft	Sand (cast 1 inch) C.T. Earth	2	8	0					
	Road.	~~2~~	~~14~~		do	0	11	3	
						0	0	6	
						~~2~~	~~33~~	~~5~~	
	Add for 10%	33	5	0	100	3	5	4	
		~~33~~	~~8~~	~~0~~		~~3~~	~~5~~	~~5~~	
No. 1	Mason for dressing top surface with a trowel	1	1	6	each	1	1	6	
No. 1	Bhisti per mason	0	4	0	do	0	4	0	
6	Watering charges for 3 days					0	1	2	
					Total.	4	12	0	4-12-0

A.V. Engg
A.O. Engineer
20.9.29

Certified that the rates for various materials mentioned in this data are correct & the best of my knowledge.

A.V. Engg
A.O. Engineer
20.9.29.

Name of Taluk.

C.F. 152—40,882—5-10-[illegible]

Name of Work.

ESTIMATE FORM—Detail Measurements.

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth	Area or contents.	Total quantity of each description of work.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
[illegible]						
1. Earth work, cutting of bed, & trimming sides of existing bank with spoil in banks 2' [illegible] & filling in banks in an average of 1/4 lead & 1/4 lift or 1/2 mile & 1/2 lift up to 1 yard:—						
Being as per calculation attached					101000	or 101.00 units
2) " Dry stone work with new stone developments for both banks from 0.0.00 to 4770 ft to union limits, as per longitudinal section calculation attached.	1	4770	1-3	5.66	33748	or 330.00
3). Travel breaking & revetment 6" unit. 1/5 qty of revetment.	1/5 x	33748	=	13499		or 135.00
4). Rough rough of revetment with earth mortar for ends & top & bottom with earth & turf. 4/5 qty of revetment.	4/5 x	33748	=	26998		or 270.00
5). Removing vegetation & jungle, clear at site & with & within young, stumps etc						L.S. 30/-

Bill dy error

Rs. chip qty =

2.5.7

ESTIMATE FORM—Abstract.

Item number. (1)	Quantity. (2)	Description of work. (3)	Rate. (4)	Per (5)	Amount (6)	Total. (7)
			Rs.		Rs.	Rs.
Improvements to Khapawadi channel within union limit.						
1.	101.00	Earthwork, cutting hard & disintegrated rock & forming bank incl. spreading & ramming, incl. cutting entrance & exit & average extra haul upto 200 ft. & extra lift upto 1 ft.	13-4-0	100 c.ft.	1338	
2.	338.00	[illegible]	[illegible]	[illegible]	704	
3.	135.00	[illegible]	[illegible]	[illegible]	793	
4.	270.00	[illegible]	[illegible]	[illegible]	1283	
5.	48.	[illegible]	[illegible]	[illegible]	30	
					10,245	
					6395	
					270	
					250	
					272	
					255	
					11,000	11,000
					10906	10900

Superintending Engineer
Madras Circle.

Grand total of estimate ...

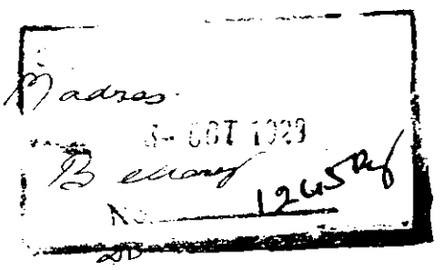
STATION _____

Date _____ 192 .

Executive Engineer.

P.W.D. V-14—59,628—30-[illegible]-(5).

E No. 32.



CIRCLE— Madras

DIVISION— Bellary

DISTRICT—

TALUKS (OR ESTATE IN CASE OF ESTATE WORKS) Siruguppa

ESTIMATE FORM—Abstract.

Financial head— ~~Irrigation~~

Budget head—

Departmental head— Improvements

Main head—

Sub-head—

Project of which the work forms part—

Section—

Name of work— Improvement to Bazaar road cum metalled [illegible] within the municipal limits

Amount of estimate, Rs. ~~10,000~~ 10,000

To be carried out by— [illegible]

REFERENCES.

M&W 374

page 1 c f

. no 221 . 2 from the LEC Nº 19 //
dated 17.0

Subject

MS > Part II theme. International
. Operations (Malaria) Singapore Harbour
keeping the irrigation channels in a
. sanitary condition.

The Special Malaria Officer
has reported that malaria is endemic
in Singapore town and suburbs which has a population of
the following measures to combat the
disease in the area -

(1). Keeping the irrigation channels
in a sanitary condition

Summary on
pp. 64-65 of
(2)

(2) Filling up of the excavations offsets
to the Govt officials quarters and Taluk
. Cutchery.

(3) Enforcing of the Rules & Regulations
etc.

(4) Removal of prickly pear
and filling up of pits and depressions

and of disused wells or covering them.
by ~~the~~ Ashan Slabs and better conservancy
arrangements.

(5) Removal of the villages to a higher
ground on the South

(6) free distribution of quinine.

4. As regards item (2) the DC BD has p 87 of (Z)
taken action. In regard to the field
channels the Collr has made arrangements
to remove ~~weeds~~ veg. tation and de-
trees on channels and paths if the — p 77 of (Z)
Ryots fail to execute work under
kudimaramat labour. The P.D.B.
Bellary has reported that the union authorities
have taken necessary action to provide
more latrines, and better conservancy arrangements
and removed prickly pear and to fill pp. 100-101 of (Z)
in pits and disused wells and has
removed prickly pear. As regards the removal
of the villages to a higher ground on pp. 76 & 88 of (Z)
the South, it is reported that necessary
action is being taken and it would take
time to arrive at a decision. As regards item (6)
the DC BD has distributed some quinine
in the area and requested the Govt p. 87 of (Z)
to include the area in the Scheme
of free distribution of quinine —

sanctioned by the Govt. The Govt has however decided not to extend the scheme to new areas unless the success of the scheme in the selected areas has been established.

para 2 of GO 1043 dt 29/4/30

3/. The chief recommendation for combating malaria in the area is the keeping of the irrigation channels in a sanitary state – Item (1) above. The CE (I) who was asked to submit an estimate for the work has now submitted one amounting to Rs 11,000. He states that the Rajavadi channel alone requires improvements and that the Ibrahimpuram channel too is being cleared regularly of rank vegetation and growth of weeds along the water edge. The DPH has reported that a great reduction in water mosquito propagation and consequently reduction in malaria incidence can could be brought about if only the irrigation channels and other water places could be kept in a sanitary condition. Action except in the case of irrigation channels has already been taken both by the Revenue dept. and the local boards on

pp-37-38 of (Z)

pp-2-3 of

Ep 37 of (Z)

concerned. Unless therefore the irrigation channels are similarly treated, the action already taken to combat the disease in the area may not give appreciable results. The deptt is therefore satisfied of the urgent necessity of carrying out the improvements to the P.W.D channels. The estimate submitted by the CE may therefore be approved and the amount provided in the C.B.E. for 1931-32.

4 - As the works in question are in the interests of the Public Health Deptt, the expenditure involved is debitable to "33 Public Health". As the work will be carried out by the P.W.D on behalf of the P.H. deptt Centage charges should also be included in the estimate. The total estimate will then be Rs 12,540. A draft note for the EC is submitted for approval. It may be sent to P.W & F and Finance for acceptance.

14%

12,540

Sd/-
6.9.30

for
Secy

PWD & Fin

SECRETARY TO GOVT
12 SEP 1930
16439
PUBLIC WORKS DEPT

G.O. no 32182-4
11/9/30

W

PWR

The draft note for the Finance Committee may be accepted in this dept. and the file passed on to Finance.

PWR
13.9.30.

Mr
13.9.30.

Chn
14/9

Secy
DF
15.9.30

Jt
15.9.30

PWR no 104.3910-30-1
15.9.30

Finance (Exp)

Part II scheme for 1931-32

JOINT SECRETARY TO GOVT.
15 SEP 1930
FINANCE DEPT

The draft note for the Finance Committee put up by P.S.G explains the proposal.

P.S.G. have remarked that unless the proposal is given effect to urgently, the action already taken by the D.C., Board and the Revenue dept., to combat Malaria in the area may not produce appreciable results.

'K' on page 6 above
R 28902 Est
15.9.30

With reference to this dept's. U.O. note dated 10.9.30 provision of funds for this scheme will depend upon the comparative urgency of other Part II schemes under "3. Public Health"

The draft note for the Finance committee may be accepted subject

flag (A) and.

F1

subject to the remark that the cost may be increased by Rs 165 on account of the increase in the rate of centage charges from 14% to 15½% to be levied from 1-4-30

The following may be added as note by this dept,:-

"The proposal may be placed before the Finance Committee as a Part II scheme for 1931-'32"

20.9.30

20.9.30

As the work is to be done only during the period of closure, it is doubtful whether the whole work can be done in one season. The provision for 1931-32 may be taken as Rs 7,000 (a little over half the estimated cost).

25.9.30

26.9.30

LSG(P.H.) dem

The C.E. (Tl. Hill-Public) may be requested to state whether the whole work can be done in one season

* excluding 1½% ... account ...

(draft ord - accepted by this dept.)

It has since been decided to include 2½% for pensionary charge. The rate of centage charge therefore works out to 13%.

14-4-31

C.E may be asked to report on this pt.

Fin no 28902 EXP1

27-9-30

SECRETARY TO GOVERNMENT
27 SEP 1930
LOCAL SELF GOVT

and whether a sum of Rs 7,000 will not be sufficient for the works during 1931-32.

19/11/30

2/10/30

3/10

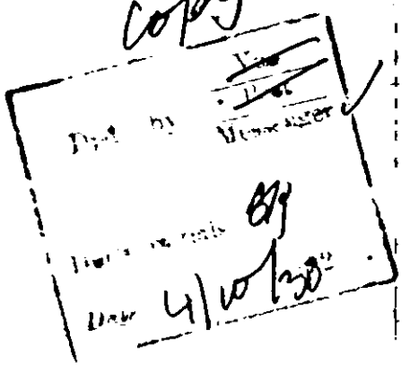
CE (thro' P.W.L.)

CIB

Dy copy of L.S.G. note only in supp. 14 and 6-7 Nos.

L.S.G. no 32182-2L P.H

8/10/30



P.T.O.

8/

Local Self Government Department.

From the Chief Engineer (Irrigation) No.1937/30 dated 22nd August 1930.

Subject:- Part II Scheme - Anti-malarial operations (Bellary district) - Siruguppa Union - keeping the irrigation channels in a sanitary condition.

The Special Malaria Officer has reported that malaria is endemic in Siruguppa town which has a population of about 6,000 and he has recommended the following measures to combat the disease in the area:-

(1) keeping the irrigation channels in a sanitary condition

(2) filling up of the excavations opposite to the Government officials quarters and taluk cutchery.

(3) ~~informing~~ enforcing of the kudimaramathu Act.

(4) Removal of prickly pear and filling up of pits and depressions and disused wells or covering them with stone slabs and better conservancy arrangements.

(5) Removal of the villages to a higher ground on the south

(6) Free distribution of quinine.

2. As regards item (2) the District Board has taken action. In regard to the field channels the Collector has made arrangements to remove rank vegetation and date trees on channels and paths if the ryots fail to execute the work under kudimaramat labour. The P.D.B. Bellary has reported that the union authorities have taken necessary action to provide more latrines and better conservancy arrangements and to fill in pits and disused wells and the District Board has removed prickly pear. As regards the removal

of the villages to a higher ground on the south, it is reported that necessary action is being taken and it would take time to arrive at a decision. As regards item (6) the District Board distributed some quinine in the area and requested the Government to include the area in the scheme of free distribution of quinine sanctioned by the Government. The Government have however decided not to extend the scheme to new areas unless the success of the scheme in the selected areas has been established.

3. The chief recommendation for combating malaria in the area is the keeping of the irrigation channels in a sanitary state - item (1) above. The C.E. (I) who was asked to submit an estimate for the work has now submitted one amounting to Rs.11,000/-. He states that the Bagavadi channel alone requires improvements and that the Ibrahimpuram channel is being cleared regularly of rank vegetation and growth of weeds along the water edge. The D.P.H. has reported that a great reduction in mosquito propagation and consequently reduction in malaria incidence could be brought about if only the irrigation channels and other water places could be kept in a sanitary condition. Action except in the case of irrigation channels has already been taken both by the Revenue department and the local boards concerned. Unless therefore the irrigation channels are similarly treated, the action already taken to combat the disease in the area may not give appreciable results. The department is therefore satisfied of the urgent necessity of carrying out the improvements to the P.W.D. channels. The estimate submitted by the C.E. may be approved, and the amount provided in the Civil Budget Estimate for 1931-32.

4. As the works in question are in the interests of the Public Health Department, the expenditure involved is debitable to "33.Public Health". As the works will be carried out by the P.W.D. on behalf of the Public Health Department centage charges should also be included in the estimate. The total estimate will then be Rs.12,540. A draft note for the Finance Committee is submitted for approval. It may be sent to P.W.& L. and Finance for acceptance.

K.N.
11-9-30.

** **

Local Self Government Department.

The Chief Engineer (Irrigation) through Public Works and Labour may be requested to state whether the whole work can be done in one season and whether a sum of Rs.7,000/- will not be sufficient for the works during 1931-32.

A.D. Crombie,
3-10-30.

To Chief Engineer through
Public Works & Labour Department.

L.S.G.U.O.32182-2 E1 P.H.
3-10-1930.

SECRETARY TO GOVERNMENT
14 OCT 1930
38587
LOCAL SELF GOVERNMENT DEPARTMENT

C.E.I's Office.

Owing to the scarcity of skilled labour and of transport in the locality it seems desirable to spread the work over two seasons.

2. A sum of Rs 7,000/- will be sufficient for the work during 1931-32.

CHIEF ENGINEER FOR IRRIGATION
C Section.
7-OCT 1930
C. No. 2444
P.W.D., MADRAS

CE(9)cno.2444/30
11.10.30

II CA

R.S.G.I.P.H. Deptt

Please see the remarks of the C.E. (I) overleaf. Para 3 of the note for the F.C. has accordingly been revised. The revised note is for approval and may be sent to Finance (I) for acceptance and ~~for adding their note~~.

AV 15-10-30.

16/10

R.S.G.I. U.O. No. 32182-3 Gf. 16-10-30

Finance (B&I)

With reference to the note on page 6 ante — the C.E. has agreed that it would suffice if Rs 7000 is provided for 1931-32. — page 10 ante the note for the Finance Committee has been revised accordingly & may be accepted. The note of this Deptt may be as at A on page 6 ante.

ASST. SECRETARY TO GOVT. 17 OCT 1930 FINANCE DEPT.

B&I No. 17-10

33123 B&I

SECRETARY TO GOVT. 24 OCT 1930 L&G. DEPT.

Leave 18-X-30

20.10.30

S 20.10.30

U.O. No. 33123-1 20-10-30.

R.S.G.I.R.H. Deptt

The note by Finance has been added to the note for F.C. The file may be sent to Hon'ble M2 before printing the note

SECRETARY TO GOVERNMENT 24 OCT 1930 LEGISLATIVE DEPT.

AV 23/10

24/10

AV 24/10

39514 M2 24.10.30

Sent to Press

11746/605

Printing Note Pages 15/Rs

25 OCT 1930

L.S.G. (P.H.) Department.

Press Please send proofs ar 24/10

Note for the Finance Committee

Part II Scheme for 1931-32.

Subject:- Malaria - Siruguppa (Bellary District) Improvements to the Bagavady channel.

Summary.

Head of account.	Item of expenditure.	Ultimate cost Rs.	Cost in 1931-32 Rs.
33 C & Public Health - expenses in connection with epidemic diseases. B Other Epidemics. Malaria-3-Other charges - Sanitary Improvements of malarial places and other expenses.	Clearing the silt in the bed of the Bagavadi channel, trimming the slope, forming banks etc., (including contingencies charges on account of Establishment)	~~12,705~~ ~~12,540~~ ~~12,650~~	~~12,705~~ ~~12,540~~ ~~12,650~~ 12,540

NOTE BY THE ADMINISTRATIVE DEPARTMENT

The Special Malaria Officer has reported that Malaria is endemic in Siruguppa town (Bellary District) and he has made the following recommendations to deal with the malaria problem in the area:-

(1) keeping the irrigation channels in a sanitary condition

(2) Filling up of the excavations opposite to the Government official quarters and taluk cutchery.

(3) Enforcing the kudimanamath Act.

(4) Removal of prickly pear and filling up of pits, and depressions, filling up of disused wells or covering them with stone slabs and better conservancy arrangements.

(5) Removal of the villages to a higher ground on the South.

(6) Free distribution of quinine.

2. Action in regard to recommendations (2) to (5) has already been taken by the local boards concerned and the Revenue Department. In regard to

recommendation

recommendation (6) namely, the inclusion of the area in the scheme of free distribution of quinine the Government have decided not to extend the scheme to new areas unless success in the selected areas had been established The Chief Engineer (I) who was asked to submit an estimate for carrying out the first recommendation in regard to the P.W.D. irrigation channels has now submitted an estimate for Rs.11,000 for improvements to the Bagavadi channel. The estimate provides for clearing the silt in the bed of the Bagavady channel with a bed slope of 1' per mile, trimming slopes, forming banks, dry stone revetments for both banks, 6" gravel backing to revetments and grouting voids of revetment with surki within the union limits of Siruguppa. A lump provision of Rs.30 is also made in the estimate for removing vegegation within the union limits of Siruguppa. As regards the other (Ibrahimpuram) channel, it is reported that jungle vegetation and growth of weeds along the water edge are being cleared every year and that no further improvements are required.

3. The scheme of antimalarial operations for Siruguppa is intended to benefit a population of about 6,000. As the improvements to the irrigation channel are in the interests of the Public Health Department, the expenditure is debitable to '33 - Public Health" As the works will be carried out by the Public Works Department on behalf of the Public Health Department, centages charges have to be added to the estimate submitted by the Chief Engineer (I). ~~This Department are satisfied of the urgent necessity of carrying out the works and accordingly propose to provide the amount of Rs.12,000 required for the purpose in the G.B.E. for 1931-32.~~ The total estimate of the works Rs.12,705. 12% for adty. 2½% panning establ 1½ tools & plants 15½%

K.N.
11-9-30

P T O

P T O

3/14

Owing to the scarcity of skilled labour and of transport in the locality it is proposed to spread the works over two seasons and a sum of Rs 7000 will be required for the purpose during 1931-32. This dept is satisfied of the urgent necessity of carrying out the works and accordingly propose to provide a sum of Rs 7000 for the works in the CB Ci for 1931-32.

Ar
15.10.30.

16/10

16/10

Note by the Finc. Dept

The proposal may be placed before the Finc. Committee as a Part II Scheme for 1931-32.

H.A.W
20.10.30

LOCAL SELF-GOVERNMENT (P.H.) DEPARTMENT.

NOTE FOR THE FINANCE COMMITTEE.

Part II Scheme for 1931-32.

[SUBJECT.—*Malaria—Siruguppa (Bellary district) Improvements to the Bagavadi channel.*]

Summary.

Head of account.	Item of expenditure.	Ultimate cost.	Cost in 1931-32.
		Rs.	Rs.
33. c. Public Health—Expenses in connexion with epidemic diseases—B. Other Epidemics—Malaria—3. Other charges—Sanitary Improvement of malarial places and other expenses.	Clearing the silt in the bed of the Bagavadi channel, trimming the slope, forming banks, etc.	12,705	7,000

NOTE BY THE ADMINISTRATIVE DEPARTMENT.

The Special Malaria Officer has reported that malaria is endemic in Siruguppa town (Bellary district) and he has made the following recommendations to deal with the malaria problem in the area :—

(1) Keeping the irrigation channels in a sanitary condition.

(2) Filling up of the excavations opposite to the Government officials' quarters and the taluk cutcherry.

(3) Enforcing the kudimaramath Act.

(4) Removal of prickly-pear and filling up of pits, and depressions, filling up of disused wells or covering them with stone slabs and better conservancy arrangements.

(5) Removal of the villages to a higher ground on the South.

(6) Free distribution of quinine.

2. Action in regard to recommendations (2) to (5) has already been taken by the local boards concerned and the Revenue Department. In regard to recommendation (6) namely, the inclusion of the area in the scheme of free distribution of quinine the Government have decided not to extend the scheme to new areas unless success in the selected areas had been established. The Chief Engineer (Irrigation) who was asked to submit an estimate for carrying out the first recommendation in regard to the Public Works Department irrigation channels has now submitted an estimate for Rs. 11,000 for improvements to the Bagavadi channel. The estimate provides for clearing the silt in the bed of the Bagavadi channel with a bed slope of 1 foot per mile, trimming slopes, forming banks, dry stone revetments for both banks, 6 inches gravel backing to revetments and grouting voids of revetment with surki within the panchayat limits of Siruguppa. A lump provision of Rs. 30 is also made in the estimate for removing vegetation within the panchayat limits of Siruguppa. As regards the other (Ibrahimpuram) channel, it is reported that rank vegetation and growth of weeds along the water edge are being cleared every year and that no further improvements are required.

3. The scheme of anti-malarial operations for Siruguppa is intended to benefit a population of about 6,000. As the improvements to the irrigation channel are in the interests of the Public Health Department, the expenditure is debitable to '33. Public Health'. As the works will be carried out by the Public Works Department on behalf of the Public Health Department, centages charges have to be added to the estimate submitted by the Chief Engineer (Irrigation). The total estimate of the works is Rs. 12,705. Owing to the scarcity of skilled labour and of transport in the locality, it is proposed to spread the works over two seasons and a sum of Rs. 7,000 will be required for the purpose during 1931-32. This department is satisfied of the urgent necessity of carrying out the works and accordingly propose to provide a sum of Rs. 7,000 for the works in the Civil Budget Estimate for 1931-32.

A. D. CROMBIE—16-10-30.

NOTE BY THE FINANCE DEPARTMENT.

The proposal may be placed before the Finance Committee as a Part II Scheme for 1931-32.

H. A. WATSON—20-10-30.

ks

Demand XX. Public Health has been voted by the LC. A draft order sanctioning the scheme in the file is submitted for approval. It may be sent to P. W.D. with no further perusal before issue.

AV
27.3.31.

30/3/31

30/3

P. W. D. No. Public Dept. [illegible] returned

Revenue No. 3248 2-5 G[illegible]
30/3/31

659 69
31 MAR 1931

P.W.D. Dept.

The centage charges to be levied on works carried out by P.W.D. for other Deptts. & Govt. is 13% for works other than water supply and drainage schemes which is 13½% - Govt 133 W dt 17.1.31. The estimate would then amount to Rs. 11,000 for works + 1,430 for centage charges, or Rs. 12,430 including centage charges. Subject to this alteration in the figures, the draft order may be accepted and the file returned to Z&S.

P.W.D. 17

@ Rs. 12,705 has been worked to Finance Committee-see Note on page 16 above

1/4 1.4.31 8/4 1.4.31

Items C

1.4.31

Phwm 6576D/31-1

8.4.31

L.S.G.(P.H.) Dept.

In views of the remarks of P.W.D. above the draft order has been revised and the revised draft is for approval. It may issue after perusal by Finance.

10/4/31

11/4/31

Fin.

SECRETARY TO GOVERNMENT
8 APR 1931
LOCAL SELF GOVERNMENT DEPARTMENT

13344

ASST. SECRETARY TO GOVT.
11 APR 1931

11.4.31

Fin.

11.4.31

Finance (Exp)

(Please see the notes from page 15 above)

Submitted that the draft order may be accepted.

14.4.31

14.4.31.

15.4.31.

LSG.

Fin no. 12664 EXP/1
17-4-31.

L.S.G (P.H) Dept

The order may now issue.

17/4

17/4/31

SECRETARY TO GOVERNMENT
17 APR 1931
LOCAL SELF GOVERNMENT DEPARTMENT

14683

17/4

Sc[redacted] 11-5 (a)

2 SG (PA) DEPARTMENT.

	Date.	Initials.
When received for Fair-copying.		
When copied ..	10/4	
When examined ..		
When signed ..		
When despatched ..		

Malaria - Sirguppa (Bellary Dt)
Improvements to the Bagavadi Channel. expenditure of Rs ~~12,705~~ 12,430 - Sanctioned

READ AGAIN G.O. No. ..... dated ..... - 19 .

" " " " ..... " ..... 19 .

READ ALSO :—

C. No. 32/52 From the Chief Engr (I), No. 1937/30 C.E.I. dated 22/8 1930.

" " ..... " " ..... " ..... 19 .

" " ..... " " ..... " ..... 19 .

ORDER.

MS

No. 15 P.H. dated 20/4/ 1931.

See page 15 above.

The Special Malaria Officer has reported that malaria is endemic in Sirguppa town (Bellary Dt) and has recommended improvements to the Bagavadi Channel as one of the anti malarial measures to deal with the problem of malaria in the area. The Chief Engr (I) has submitted an estimate for Rs ~~12,705~~ ① 12,430 inclusive of Cartage charges for clearing the silt in the bed of the Channel ~~with a bed~~

① Estimated Cost = Rs 11,000
Cartage charges at 13% 1,430
12,430
see page 17 ref.

2

~~Slopes @ 1 foot per mile~~, trimming the slopes and forming banks, ~~dry stone~~ via revetments, ~~for both banks~~, ~~bunches~~ ~~gravel~~ backing for revetments and fronting voids of ~~revetment with earth~~ within the panchayat limits of Siragappa. The estimate also provides for removing vegetation within the panchayat limits.

The Govt approve the estimate of ~~Rs 12,~~ Rs 12,430 (twelve thousand ~~and~~ four hundred and thirty four).

3. ~~Charge to the accounts~~

4. The C.E (I) has reported that owing to the scarcity of skilled labour and of transport facilities in the locality, the works should be spread over two seasons and that a sum of Rs 7,000 will alone be reqd. for the purpose during 1931-32. The amount of Rs 7000 has accordingly been provided in the budget for 1931-32 under "33 C. Public Health - Expenses in connection with epidemic diseases - B - Other epidemics - Malaria B other charges. Sanitary Improvements, malarial fevers and other expenses"

2 As the improvements are in the interests of the P.H. deptt, the expenditure is debitable to "33. Public Health". The works will, however, be carried out by the P.W.D.

page 10 n.f. 12

Dpd. by ~~Post~~ Van / Messenger (1), (3), (4), (5), (6)

Dpr's. initials 811

Date 21/4/32

To

The C.E (I)

Hd P. works with plans & estimate rtd.

page 331 D.P.H.

" Accts Hd

" Finance

" Addl Chief Secy

" P. Secy to Govt

ar 27/3. Hd 30/3

307 2